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(71)Applicant : MITSUBISHI RAYON CO LTD

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(72)Inventor : NAKAI YOSHIO
SHIMOMURA YASUNOBU
TATEYAMA MASAMITSU

(54) THERMOPLASTIC RESIN COMPOSITION HAVING EXCELLENT RESISTANCE TO HEAT AND IMPACT

(57)Abstract:

PURPOSE: To improve resistance to heat and impact, by blending a graft copolymer having a specified composition and structure with a methyl methacrylate/ α -methylstyrene/styrene/maleic anhydride tetracomponent copolymer.

CONSTITUTION: A graft polymer (III) is blended with the above tetracomponent copolymer (I). The graft polymer (III) is prepd. in the following manner. 0.1W5 pts.wt. salt of an oxyacid (e.g. potassium sulfate) is added to 100pts.wt. (on a polymer basis) of latex of a rubbery copolymer (II) composed of 30W99wt% 2W8C alkyl acrylate unit, 70W1wt% 1,3-butadiene unit and 10W0wt% vinyl monomer unit prepd. by emulsion polymn. to obtain an enlarged rubbery copolymer (III)' latex. 10W1,000pts.wt. monomer contg. at least 50wt% styrene or methyl methacrylate is polymerized in the presence of 100pts.wt. enlarged rubbery copolymer (II)' latex to obtain the graft polymer. 1W70wt% said enlarged rubbery copolymer (II)' is incorporated in the compsn.

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